

# DEMONSTRATION REPORT

## Former Spencer Artillery Range, Tennessee Classification Demonstration Open Field and Dynamic Areas

ESTCP Project MR-201312

JANUARY 2016

Richard MacNeil  
USA Environmental

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# **ESTCP ABBREVIATED DEMONSTRATION REPORT**

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**Former Spencer Artillery Range, Tennessee  
Classification Demonstration  
Open Field and Dynamic Areas**

**ESTCP Project MR-201312  
Leidos Subcontract P010159840**

**January 2016**

USA Environmental Analyst: Richard MacNeil

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## List of Acronyms

AC	Advanced Classification
ESTCP	Environmental Security Technology Certification Program
IDA	Institute for Defense Analysis
IVS	Instrument Verification Strip
MM	Metal Mapper
mm	millimeter
ROC	Receiver Operating Characteristic
SAR	Spencer Artillery Range
TOI	Target of Interest
USA	USA Environmental, Inc.
UXA	UX-Analyze

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## **1.0 INTRODUCTION**

USA Environmental, Inc. (USA) is contracted with Leidos Inc., to receive limited advanced classification (AC) software training and perform AC data processing of cued Metal Mapper (MM) data as part of the Classification Demonstration funded by the Environmental Security Technology Certification Program (ESTCP).

### **1.1 SITE SUMMARY**

The cued MM data is from the open field (4.4 acres) and dynamic area (1.3 acres) of the former Spencer Artillery Range (SAR), in Van Buren County, Tennessee. The anticipated targets of interest (TOI) at the former SAR range from 37 millimeters (mm) to 155mm projectiles. This classification training is based on EM61 and cued advanced sensor MM data previously collected at the SAR by other contractors.

## **2.0 PERFORMANCE OBJECTIVES**

Table 2-1 summarizes the abbreviated version of the standard performance objectives and results. The objectives listed in Table 2-1 are only for data analysis as it relates to this abbreviated demonstration. The data collection objectives, under normal circumstances would be included in the demonstration plan objectives, but are excluded in the following sections.

### **2.1 INSTRUMENT VERIFICATION STRIP MEASUREMENTS RESULTS**

IVS data were collected twice per day. The objective of this item is to determine proper sensor performance, specifically, the repeatability of the northing, easting, and horizontal offset for each IVS item. IVS training data have been provided. The metrics for this item are the average error of the northing and easting and horizontal offset from the known source location. The data required for this item are the daily IVS data and known location (coordinates) of IVS seed items. The success criteria is the average change in northing, easting and horizontal is less than 0.1 meter. Statistics calculations are part of the Geosoft UX-Analyze (UXA) process module for IVS and include, in part, Delta X, Y, Z, Delta horizontal distance, Delta size, fit coherence and library match metrics. There were no exceedances of the offset metric. All offsets were <0.1 meter.

### **2.2 PROPER CLASSIFICATION OF TOI RESULTS**

The goal of the classification is to correctly identify all possible TOI based on cued sensor data collected at the site. The metric for this item objective is the number of retained TOI using a specific classification approach. The analyst created a ranked anomaly list of targets that were scored by Institute for Defense Analysis (IDA) personnel to assess performance. All TOI (100%) for both the open and dynamic areas were properly identified and included on the final ranked anomaly list.

### **2.3 PROPER CLASSIFICATION OF NON-TOI RESULTS**

The goal of the classification is to correctly identify all possible non-TOI based on cued sensor data collected at the site. The objective will be met if greater than 75% of non-TOI targets are properly labeled as non-TOI on the target list. Results of the final ranked anomaly list scored by IDA personnel confirmed that greater than 75% of non-TOI targets were properly labeled for both the open and dynamic areas, with 82.1% and 84.2% non-TOI targets, respectively, classified correctly.

**Table 2-1: Performance Objectives and Results for this Abbreviated Demonstration.**

<b>Performance Objective</b>	<b>Metric</b>	<b>Data Required</b>	<b>Success Criteria</b>	<b>Results</b>
Repeatability of Instrument Verification Strip (IVS) measurements	Average error in northing and easting for IVS item	IVS as built and daily IVS survey data	Average delta northing, easting and horizontal offset < 0.1 meter	No exceedances of offset metric. All offsets <0.1 meter
Proper classification of TOI	Number of retained TOI	Ranked anomaly list	Classification approach identifies all TOI based on scoring	100% TOI Correctly Classified
Proper classification of Non-TOI	Number of false alarms removed	Ranked anomaly list	Reduce clutter digs by >75% based on scoring	Non-TOI Correctly Classified Open: 82% Dynamic: 84%
Designate No Dig threshold	Correct classification of TOI and number of false alarms at demonstrator operating point	Analyst specified threshold	Correct threshold to classify all TOI. >75% of non-TOI correctly identified based on scoring	Metric Achieved with 93.5% Confidence Threshold
Correctly identify anomalies that cannot be analyzed	Number of anomalies that cannot be analyzed	Based on analyst-specified target parameters	Target parameters correctly estimated for >95% of anomalies	Target parameters correctly analyzed: Open - 99.6% Dynamic - 100.0%

## **2.4 SPECIFICATION OF NO-DIG THRESHOLD RESULTS**

For the Spencer Range data, since there are full ground truth results for all targets, this objective is measurable based on where the analyst places the no-dig threshold on the ranked anomaly list. Correct classification of TOI to false positives are based on the analyst's classification metrics used. Success will be measured by a percentage of non-TOI targets that can be properly labeled. The metric will be 75%, or greater, of the non-TOI targets are properly labeled. Results of the final ranked anomaly list, with a no-dig threshold of 93.5% confidence metric, scored by IDA personnel confirmed that greater than 75% of non-TOI targets were properly labeled for both the open and dynamic areas, with 82.1% and 84.2% non-TOI targets, respectively, being correctly classified.

## **2.5 ANOMALIES THAT CANNOT BE ANALYZED**

The criteria used to determine the "can't extract reliable parameters" class was based on whether the quality of the data is insufficient to make a logical/reliable analysis. The metric will be those anomalies for which reliable parameters cannot be modeled. Thus, these targets were included on the final ranked anomaly list as a "dig." The goal is to have met reliable target parameters for

>95% of the anomalies. The final ranked anomaly list scored by IDA personnel met the requirement, with 100% of the targets in the Dynamic Area and 99.6% of the targets in the Open Area, successfully analyzed.

### **3.0 DATA ANALYSIS AND PRODUCTS**

#### **3.1 DATA ANALYSIS**

Using the most current version of UXA (Version 8.5.1), the preliminary step in the classification approach was to import, model, and review the IVS advanced sensor training data. This process included modeling, statistics, and fit results for the known IVS items.

After review of the IVS data, the supplied advanced sensor blind data was then imported. All cued data provided was previously leveled using the background data from the field site. Each anomaly was then inverted using both single-source and multi-source models to obtain multiple target parameters. The primary parameters utilized during the classification process were the polarizabilities of the three axes of each anomaly. These modeled polarizabilities were library matched to known munitions and seed items in the target library. The final threshold boundaries of buffer and TOI/non-TOI were set after all ground truth results were received and the analyst was confident that the site-specific library was complete.

#### **3.2 GROUND TRUTH**

After the multi-source inversion process, a scatter plot was used to identify expected and unexpected TOI clusters. Ground truth was then requested for a number of anomalies identified during this process that were difficult to library match and our TOI library was adjusted after the ground truth results were received. An initial anomaly list was submitted to be analyzed to check whether all QC seeds had been correctly classified. During review, it was noted that two QC seed items were not marked to be dug on the initial dig list; therefore, the ESTCP Program Office provided the location and identity of the misclassified QC seeds as additional on-site training data. USA used this additional information to modify our classification procedures to ensure that the revised methods correctly classify the seeds missed originally. A revised anomaly list was then submitted, accompanied by a Root Cause Analysis memo (provided in Appendix A) outlining the causes of the misclassification, the revisions made in the classification analysis, and a demonstration that the revised procedures successfully classified the missed seeds.

#### **3.3 STOP-DIG RATIONALE**

Upon review of all final ground truth results, the rationale used to specify the stop-dig point was to successfully detect and properly classify all seed items that lead to confidence that the detection and classification parameters were working appropriately. An additional buffer of 25 targets in each area was included to provide additional confidence that all TOI were identified. The final ranked anomaly list separates the analyst's non-munitions (High Confidence Non-TOI) from those targets that must be investigated (Can't Analyze, High Confidence TOI and Can't Make a Decision target). An example of a Final Ranked Anomaly List is presented in Table 3-1.



**Table 3-1: Example Ranked Anomaly List**

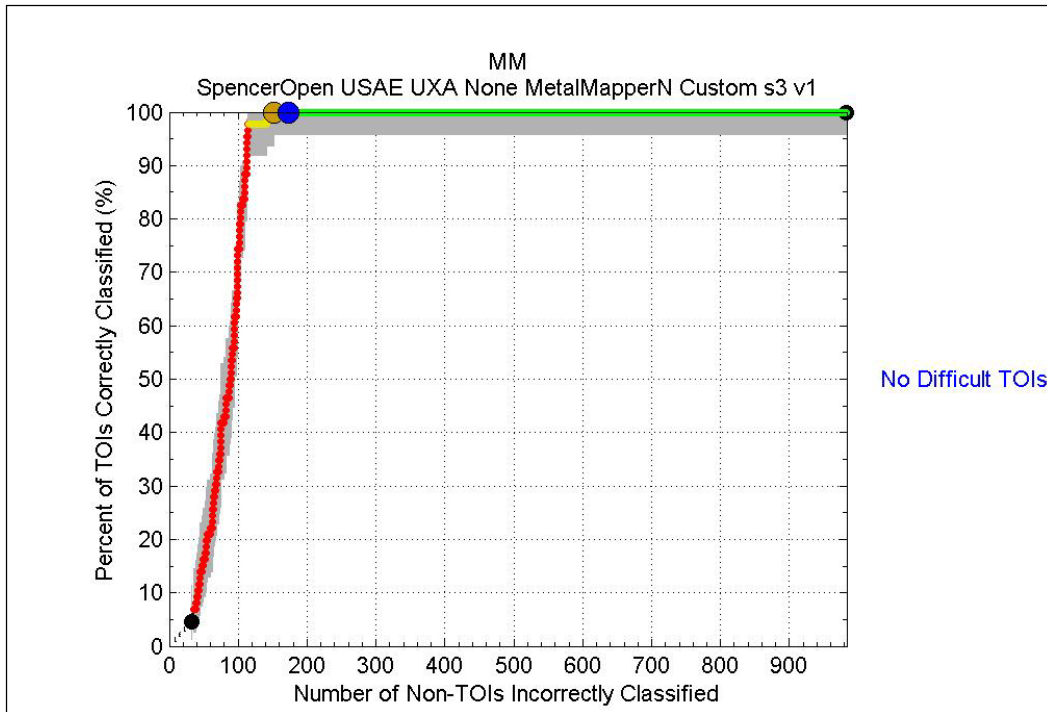
<b>Target ID:</b>	<b>Category: -1 = Training Set 0 = Can't Extract Reliable Parameters 1 = Likely TOI 2 = Can't Decide 3 = Likely Non-TOI</b>	<b>Dig Decision: 1 = Dig 0 = Don't Dig</b>	<b>TOI Type: (caliber or diameter in mm)</b>
SR-128	-1	1	0
SR-132	-1	1	0
SR-357	0	1	0
SR-766	0	1	0
SR-122	1	1	37
SR-126	1	1	37
SR-130	2	1	105
SR-141	2	1	48
SR-121	3	0	0
SR-123	3	0	0

Interpretation of the ranked anomaly list:

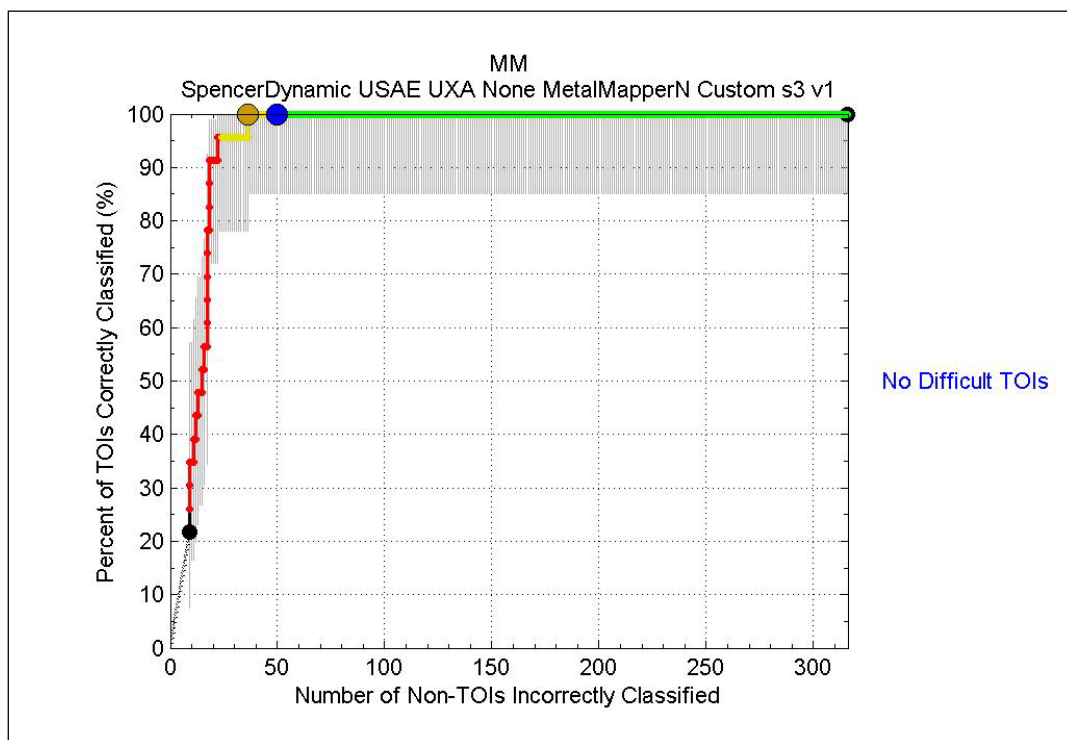
- Category -1: anomalies for which ground truth had been requested.
- Category 0: anomalies for which the analyst was not able to extract reliable parameters.
- Category 1: high confidence TOI.
- Category 2: buffer anomalies between high confidence TOI and high confidence non-TOI.
- Category 3: high confidence non-TOI or likely MD.

### **3.4 RANKED ANOMALY LISTS AND RESULTS**

USA submitted two final ranked anomaly lists to IDA for scoring (Appendix B). One list was for the open area and the second was for the dynamic area of SAR. During scoring, IDA constructed Receiver Operating Characteristic (ROC) curves for each anomaly list. Figure 3-1 and Figure 3-2 show the ROC curves for the open and dynamic areas, respectively.



**Figure 3-1: Spencer Range Open Area Metal Mapper ROC Curve**



**Figure 3-2: Spencer Range Dynamic Area ROC Curve**

Following is an interpretation of the ROC curves:

- The dashed line corresponds to the targets that were dug for training data.
- The solid black line corresponds to the targets that were categorized as “can’t extract reliable parameters” that were treated as potential TOI because no meaningful classification could be done. One TOI was identified in this part of the curve for the open area.
- Targets in red, yellow, and green correspond to Category 1, 2, and 3 targets, respectively.
- The blue dot corresponds to the dividing point between TOI and not-TOI.
- The orange dot corresponds to the point at which USA detected all TOI.

Final results from the AC software training and data processing of cued MM data from Spencer Range show that USA was successful in classifying all TOI and reduced clutter or non-TOI digs by greater than 82%.

## **APPENDIX A. ROOT CAUSE ANALYSIS (MISSED SEED ITEMS)**

## ROOT CAUSE ANALYSIS

### PART 1 – General Information

Date Submitted: 11/13/2015	Project Name: Leidos Advanced Classification Project
Submitted To: Herb Nelson	Contract Number: P010159840
Prepared By: Richard MacNeil	TO Number:
Title/Position: Project Geophysicist	

### PART 2 – Substandard or Failed Finding

Description of Substandard or Failed Item or Condition:				
<b>Failure of analyst to detect 3 blind seed items during TOI classification on Advanced Classification Project.</b>				
Contract/Work Plan/PWS or Project Specific Written Requirement: The objective will be considered to be met if 100% of the seeded items are detected within a halo of 60cm.				
Test/Inspection/Audit Identifying Substandard or Failed Item or Condition: Initial submission of ranked anomalies identified 3 BSI's missing from TOI list.				
Item/UOP Size: Blind Seed Items	Quantity: 3			
Disposition:	Review <input type="checkbox"/>	Rework x <input checked="" type="checkbox"/>	Change <input type="checkbox"/>	Reject <input type="checkbox"/>

### PART 3 – Investigation/Root Cause Determination

Personnel Responsible for Investigative Process: Richard MacNeil – Analyst/Project Geophysicist
Investigative Process Findings: The site UXO classify and rank library did not include 155 projectiles for classification.
Probable Root and Contributing Cause(s)(See attachment for additional information): Analyst's inattention to detail resulted in 155mm projectiles to not be included in the classify and rank library, therefore several items were not matched to known TOI on site. 155mm projectiles were know items on site and should have been included in library.

### PART 4 – Corrective Actions

Proposed Corrective Actions and Completion Dates: Analyst will add additional items (155mm Projectile) to the UXO library and re-run the Classify and Rank GX.		
Personnel Responsible for Implementation of Corrective Actions: Analyst – Richard MacNeil/ Project Geophysicist		
Personnel Responsible for Monitoring/Measuring Effectiveness of Corrective Actions: Analyst/ data processor		
<i>Corrective actions have been completed and monitored/measured for effectiveness. Additional items were added to the UXO library as recommended and Classify and Rank GX re-run. Seed items were selected as TOI with new parameters and data re-submitted for scoring.</i>		
Signature <b>Richard MacNeil</b> <small>Digitally signed by Richard MacNeil DN: cn=Richard MacNeil, c=USA Environmental, Inc., ou=Project Geophysicist, email=rmacnell@usastampa.com, c=US Date: 2015.11.13 16:16:23 -0500</small>	Title/Position Project Geophysicist	Date 11/13/2015

## **APPENDIX B. RANKED ANOMALY LISTS**

This appendix contains the two final ranked anomaly lists submitted to IDA for the open field and dynamic areas of the former Spencer Artillery Range as part of the AC data processing requirement of the Classification Demonstration funded by the Environmental Security Technology Certification Program.

# ESTCP Classification Demonstration Ranked Anomaly List

Site SpencerOpen  
 Analyst USAE  
 Method UXA  
 Dynamic D: None  
 Cued Data MetalMapperN  
 Training Se Custom  
 Stage 3  
 Version 1

List all anomalies in both Training and Test Sets:

Include prefixes in Target ID column (for example: BE-138). Data in all other columns should be numerical (no text):

Target ID: Category: Dig TOI Type:

SR-128	-1	1	0
SR-132	-1	1	0
SR-140	-1	1	0
SR-158	-1	1	0
SR-190	-1	1	155
SR-192	-1	1	0
SR-197	-1	1	0
SR-202	-1	1	0
SR-227	-1	1	0
SR-259	-1	1	0
SR-283	-1	1	0
SR-328	-1	1	0
SR-332	-1	1	0
SR-339	-1	1	0
SR-380	-1	1	0
SR-393	-1	1	61
SR-436	-1	1	0
SR-440	-1	1	0
SR-444	-1	1	0
SR-545	-1	1	48
SR-573	-1	1	0
SR-594	-1	1	0
SR-636	-1	1	0
SR-648	-1	1	155
SR-763	-1	1	37
SR-784	-1	1	0
SR-786	-1	1	0
SR-789	-1	1	0
SR-799	-1	1	0
SR-851	-1	1	0
SR-898	-1	1	0
SR-1005	-1	1	0
SR-1017	-1	1	0
SR-1055	-1	1	0
SR-1082	-1	1	0
SR-1094	-1	1	0
SR-1256	-1	1	0
SR-357	0	1	0
SR-766	0	1	0

# ESTCP Classification Demonstration Ranked Anomaly List

Site SpencerOpen  
 Analyst USAE  
 Method UXA  
 Dynamic D: None  
 Cued Data MetalMapperN  
 Training Se Custom  
 Stage 3  
 Version 1

List all anomalies in both Training and Test Sets:

Include prefixes in Target ID column (for example: BE-138). Data in all other columns should be numerical (no text):

Target ID: Category: Dig TOI Type:

SR-827	0	1	0
SR-837	0	1	0
SR-122	1	1	37
SR-126	1	1	37
SR-129	1	1	48
SR-133	1	1	37
SR-135	1	1	48
SR-145	1	1	48
SR-151	1	1	48
SR-152	1	1	48
SR-156	1	1	60
SR-170	1	1	37
SR-181	1	1	48
SR-188	1	1	48
SR-194	1	1	37
SR-198	1	1	60
SR-199	1	1	37
SR-200	1	1	48
SR-207	1	1	48
SR-210	1	1	48
SR-220	1	1	60
SR-226	1	1	48
SR-232	1	1	37
SR-239	1	1	48
SR-241	1	1	61
SR-261	1	1	48
SR-264	1	1	48
SR-265	1	1	48
SR-272	1	1	48
SR-278	1	1	48
SR-289	1	1	37
SR-290	1	1	48
SR-295	1	1	48
SR-296	1	1	60
SR-308	1	1	37
SR-316	1	1	48
SR-336	1	1	48
SR-344	1	1	48
SR-345	1	1	48



# ESTCP Classification Demonstration Ranked Anomaly List

Site SpencerOpen  
 Analyst USAE  
 Method UXA  
 Dynamic D: None  
 Cued Data MetalMapperN  
 Training Se Custom  
 Stage 3  
 Version 1

List all anomalies in both Training and Test Sets:

Include prefixes in Target ID column (for example: BE-138). Data in all other columns should be numerical (no text):

Target ID: Category: Dig TOI Type:

SR-354	1	1	60
SR-359	1	1	75
SR-373	1	1	48
SR-375	1	1	37
SR-376	1	1	48
SR-383	1	1	48
SR-418	1	1	75
SR-425	1	1	37
SR-442	1	1	48
SR-447	1	1	75
SR-462	1	1	75
SR-468	1	1	48
SR-473	1	1	37
SR-485	1	1	60
SR-486	1	1	48
SR-490	1	1	37
SR-494	1	1	37
SR-503	1	1	48
SR-504	1	1	48
SR-505	1	1	37
SR-521	1	1	37
SR-537	1	1	48
SR-546	1	1	48
SR-572	1	1	37
SR-578	1	1	48
SR-580	1	1	48
SR-583	1	1	37
SR-588	1	1	37
SR-607	1	1	37
SR-614	1	1	37
SR-628	1	1	75
SR-629	1	1	75
SR-633	1	1	48
SR-658	1	1	37
SR-667	1	1	48
SR-671	1	1	48
SR-673	1	1	48
SR-696	1	1	48
SR-697	1	1	48

# ESTCP Classification Demonstration Ranked Anomaly List

Site SpencerOpen  
 Analyst USAE  
 Method UXA  
 Dynamic D: None  
 Cued Data MetalMapperN  
 Training Se Custom  
 Stage 3  
 Version 1

List all anomalies in both Training and Test Sets:

Include prefixes in Target ID column (for example: BE-138). Data in all other columns should be numerical (no text):

Target ID:	Category:	Dig	TOI Type:
SR-700	1	1	48
SR-701	1	1	48
SR-702	1	1	48
SR-707	1	1	48
SR-708	1	1	75
SR-710	1	1	37
SR-718	1	1	48
SR-722	1	1	37
SR-732	1	1	48
SR-736	1	1	48
SR-737	1	1	48
SR-753	1	1	48
SR-755	1	1	37
SR-756	1	1	37
SR-758	1	1	48
SR-759	1	1	60
SR-760	1	1	60
SR-780	1	1	48
SR-787	1	1	48
SR-790	1	1	75
SR-791	1	1	48
SR-802	1	1	61
SR-805	1	1	48
SR-828	1	1	75
SR-833	1	1	48
SR-852	1	1	60
SR-854	1	1	48
SR-857	1	1	60
SR-864	1	1	48
SR-873	1	1	60
SR-879	1	1	48
SR-886	1	1	60
SR-888	1	1	37
SR-897	1	1	37
SR-921	1	1	37
SR-923	1	1	37
SR-935	1	1	37
SR-937	1	1	48
SR-943	1	1	48

# ESTCP Classification Demonstration Ranked Anomaly List

Site SpencerOpen  
 Analyst USAE  
 Method UXA  
 Dynamic D: None  
 Cued Data MetalMapperN  
 Training Se Custom  
 Stage 3  
 Version 1

List all anomalies in both Training and Test Sets:

Include prefixes in Target ID column (for example: BE-138). Data in all other columns should be numerical (no text):

Target ID:	Category:	Dig	TOI Type:
SR-950	1	1	75
SR-953	1	1	37
SR-958	1	1	48
SR-967	1	1	48
SR-971	1	1	60
SR-978	1	1	37
SR-991	1	1	37
SR-992	1	1	37
SR-1006	1	1	61
SR-1010	1	1	48
SR-1025	1	1	75
SR-1031	1	1	48
SR-1036	1	1	60
SR-1039	1	1	48
SR-1051	1	1	37
SR-1067	1	1	37
SR-1068	1	1	60
SR-1083	1	1	48
SR-1092	1	1	48
SR-1097	1	1	61
SR-1105	1	1	75
SR-1109	1	1	60
SR-1121	1	1	48
SR-1122	1	1	48
SR-1132	1	1	48
SR-1133	1	1	75
SR-1136	1	1	48
SR-1151	1	1	48
SR-1156	1	1	48
SR-1160	1	1	48
SR-1164	1	1	61
SR-1166	1	1	60
SR-1169	1	1	37
SR-1189	1	1	37
SR-1191	1	1	37
SR-1197	1	1	48
SR-1205	1	1	48
SR-1207	1	1	60
SR-1216	1	1	75

# ESTCP Classification Demonstration Ranked Anomaly List

Site SpencerOpen  
Analyst USAE  
Method UXA  
Dynamic D: None  
Cued Data MetalMapperN  
Training Se Custom  
Stage 3  
Version 1

List all anomalies in both Training and Test Sets:

Include prefixes in Target ID column (for example: BE-138). Data in all other columns should be numerical (no text):

Target ID:	Category:	Dig	TOI Type:
SR-1217	1	1	37
SR-1220	1	1	61
SR-1223	1	1	75
SR-1238	1	1	48
SR-1240	1	1	37
SR-1243	1	1	37
SR-1245	1	1	37
SR-1255	1	1	48
SR-130	2	1	105
SR-141	2	1	48
SR-146	2	1	37
SR-147	2	1	48
SR-162	2	1	37
SR-167	2	1	60
SR-201	2	1	48
SR-228	2	1	37
SR-234	2	1	48
SR-236	2	1	105
SR-240	2	1	48
SR-243	2	1	48
SR-253	2	1	48
SR-260	2	1	48
SR-277	2	1	37
SR-311	2	1	48
SR-315	2	1	48
SR-374	2	1	60
SR-409	2	1	48
SR-417	2	1	48
SR-428	2	1	60
SR-431	2	1	48
SR-433	2	1	48
SR-441	2	1	48
SR-469	2	1	48
SR-496	2	1	48
SR-536	2	1	48
SR-618	2	1	37
SR-631	2	1	37
SR-650	2	1	75
SR-653	2	1	48

# ESTCP Classification Demonstration Ranked Anomaly List

Site SpencerOpen  
Analyst USAE  
Method UXA  
Dynamic D: None  
Cued Data MetalMapperN  
Training Se Custom  
Stage 3  
Version 1

List all anomalies in both Training and Test Sets:

Include prefixes in Target ID column (for example: BE-138). Data in all other columns should be numerical (no text):

Target ID:	Category:	Dig	TOI Type:
SR-709	2	1	37
SR-748	2	1	48
SR-757	2	1	37
SR-804	2	1	48
SR-829	2	1	48
SR-835	2	1	48
SR-840	2	1	48
SR-856	2	1	48
SR-887	2	1	37
SR-904	2	1	48
SR-920	2	1	105
SR-945	2	1	37
SR-951	2	1	105
SR-956	2	1	105
SR-957	2	1	48
SR-968	2	1	48
SR-974	2	1	105
SR-995	2	1	105
SR-1001	2	1	105
SR-1021	2	1	105
SR-1047	2	1	105
SR-1048	2	1	105
SR-1050	2	1	105
SR-1117	2	1	37
SR-1119	2	1	48
SR-1123	2	1	37
SR-1125	2	1	48
SR-1128	2	1	105
SR-1131	2	1	48
SR-1165	2	1	48
SR-1186	2	1	37
SR-1204	2	1	48
SR-1229	2	1	48
SR-1254	2	1	48
SR-121	3	0	0
SR-123	3	0	0
SR-124	3	0	0
SR-125	3	0	0
SR-127	3	0	0

# ESTCP Classification Demonstration Ranked Anomaly List

Site SpencerOpen  
 Analyst USAE  
 Method UXA  
 Dynamic D: None  
 Cued Data MetalMapperN  
 Training Se Custom  
 Stage 3  
 Version 1

List all anomalies in both Training and Test Sets:

Include prefixes in Target ID column (for example: BE-138). Data in all other columns should be numerical (no text):

Target ID: Category: Dig TOI Type:

SR-131	3	0	0
SR-134	3	0	0
SR-136	3	0	0
SR-137	3	0	0
SR-138	3	0	0
SR-139	3	0	0
SR-142	3	0	0
SR-143	3	0	0
SR-144	3	0	0
SR-148	3	0	0
SR-149	3	0	0
SR-150	3	0	0
SR-153	3	0	0
SR-154	3	0	0
SR-155	3	0	0
SR-157	3	0	0
SR-160	3	0	0
SR-163	3	0	0
SR-164	3	0	0
SR-165	3	0	0
SR-166	3	0	0
SR-168	3	0	0
SR-169	3	0	0
SR-171	3	0	0
SR-172	3	0	0
SR-173	3	0	0
SR-174	3	0	0
SR-175	3	0	0
SR-176	3	0	0
SR-177	3	0	0
SR-178	3	0	0
SR-179	3	0	0
SR-180	3	0	0
SR-182	3	0	0
SR-183	3	0	0
SR-184	3	0	0
SR-185	3	0	0
SR-186	3	0	0
SR-187	3	0	0

# ESTCP Classification Demonstration Ranked Anomaly List

Site SpencerOpen  
Analyst USAE  
Method UXA  
Dynamic D: None  
Cued Data MetalMapperN  
Training Se Custom  
Stage 3  
Version 1

List all anomalies in both Training and Test Sets:

Include prefixes in Target ID column (for example: BE-138). Data in all other columns should be numerical (no text):

Target ID: Category: Dig TOI Type:

SR-189	3	0	0
SR-191	3	0	0
SR-195	3	0	0
SR-196	3	0	0
SR-204	3	0	0
SR-205	3	0	0
SR-206	3	0	0
SR-208	3	0	0
SR-209	3	0	0
SR-211	3	0	0
SR-212	3	0	0
SR-213	3	0	0
SR-214	3	0	0
SR-215	3	0	0
SR-216	3	0	0
SR-218	3	0	0
SR-219	3	0	0
SR-221	3	0	0
SR-222	3	0	0
SR-223	3	0	0
SR-224	3	0	0
SR-225	3	0	0
SR-229	3	0	0
SR-230	3	0	0
SR-231	3	0	0
SR-233	3	0	0
SR-235	3	0	0
SR-237	3	0	0
SR-238	3	0	0
SR-242	3	0	0
SR-244	3	0	0
SR-245	3	0	0
SR-246	3	0	0
SR-247	3	0	0
SR-248	3	0	0
SR-249	3	0	0
SR-250	3	0	0
SR-251	3	0	0
SR-252	3	0	0

# ESTCP Classification Demonstration Ranked Anomaly List

Site SpencerOpen  
Analyst USAE  
Method UXA  
Dynamic D: None  
Cued Data MetalMapperN  
Training Se Custom  
Stage 3  
Version 1

List all anomalies in both Training and Test Sets:

Include prefixes in Target ID column (for example: BE-138). Data in all other columns should be numerical (no text):

Target ID: Category: Dig TOI Type:

SR-254	3	0	0
SR-255	3	0	0
SR-256	3	0	0
SR-257	3	0	0
SR-258	3	0	0
SR-262	3	0	0
SR-266	3	0	0
SR-267	3	0	0
SR-268	3	0	0
SR-269	3	0	0
SR-270	3	0	0
SR-271	3	0	0
SR-273	3	0	0
SR-274	3	0	0
SR-275	3	0	0
SR-276	3	0	0
SR-279	3	0	0
SR-280	3	0	0
SR-281	3	0	0
SR-282	3	0	0
SR-284	3	0	0
SR-285	3	0	0
SR-286	3	0	0
SR-287	3	0	0
SR-288	3	0	0
SR-291	3	0	0
SR-292	3	0	0
SR-294	3	0	0
SR-297	3	0	0
SR-298	3	0	0
SR-299	3	0	0
SR-300	3	0	0
SR-302	3	0	0
SR-303	3	0	0
SR-304	3	0	0
SR-305	3	0	0
SR-306	3	0	0
SR-307	3	0	0
SR-309	3	0	0



# ESTCP Classification Demonstration Ranked Anomaly List

Site SpencerOpen  
 Analyst USAE  
 Method UXA  
 Dynamic D: None  
 Cued Data MetalMapperN  
 Training Se Custom  
 Stage 3  
 Version 1

List all anomalies in both Training and Test Sets:

Include prefixes in Target ID column (for example: BE-138). Data in all other columns should be numerical (no text):

Target ID: Category: Dig TOI Type:

SR-310	3	0	0
SR-312	3	0	0
SR-313	3	0	0
SR-314	3	0	0
SR-317	3	0	0
SR-318	3	0	0
SR-320	3	0	0
SR-321	3	0	0
SR-322	3	0	0
SR-323	3	0	0
SR-324	3	0	0
SR-326	3	0	0
SR-327	3	0	0
SR-329	3	0	0
SR-330	3	0	0
SR-331	3	0	0
SR-333	3	0	0
SR-334	3	0	0
SR-335	3	0	0
SR-337	3	0	0
SR-338	3	0	0
SR-340	3	0	0
SR-341	3	0	0
SR-342	3	0	0
SR-343	3	0	0
SR-347	3	0	0
SR-348	3	0	0
SR-349	3	0	0
SR-350	3	0	0
SR-352	3	0	0
SR-355	3	0	0
SR-356	3	0	0
SR-358	3	0	0
SR-360	3	0	0
SR-361	3	0	0
SR-362	3	0	0
SR-363	3	0	0
SR-364	3	0	0
SR-365	3	0	0

# ESTCP Classification Demonstration Ranked Anomaly List

Site SpencerOpen  
 Analyst USAE  
 Method UXA  
 Dynamic D: None  
 Cued Data MetalMapperN  
 Training Se Custom  
 Stage 3  
 Version 1

List all anomalies in both Training and Test Sets:

Include prefixes in Target ID column (for example: BE-138). Data in all other columns should be numerical (no text):

Target ID: Category: Dig TOI Type:

SR-367	3	0	0
SR-368	3	0	0
SR-369	3	0	0
SR-370	3	0	0
SR-371	3	0	0
SR-372	3	0	0
SR-377	3	0	0
SR-378	3	0	0
SR-379	3	0	0
SR-381	3	0	0
SR-382	3	0	0
SR-384	3	0	0
SR-385	3	0	0
SR-386	3	0	0
SR-388	3	0	0
SR-389	3	0	0
SR-390	3	0	0
SR-391	3	0	0
SR-392	3	0	0
SR-394	3	0	0
SR-395	3	0	0
SR-396	3	0	0
SR-397	3	0	0
SR-398	3	0	0
SR-399	3	0	0
SR-400	3	0	0
SR-401	3	0	0
SR-402	3	0	0
SR-403	3	0	0
SR-404	3	0	0
SR-405	3	0	0
SR-407	3	0	0
SR-408	3	0	0
SR-410	3	0	0
SR-411	3	0	0
SR-412	3	0	0
SR-413	3	0	0
SR-414	3	0	0
SR-415	3	0	0

# ESTCP Classification Demonstration Ranked Anomaly List

Site        SpencerOpen  
 Analyst    USAE  
 Method    UXA  
 Dynamic D: None  
 Cued Data MetalMapperN  
 Training Se Custom  
 Stage       3  
 Version     1

List all anomalies in both Training and Test Sets:

Include prefixes in Target ID column (for example: BE-138). Data in all other columns should be numerical (no text):

Target ID:    Category:    Dig        TOI Type:

SR-416	3	0	0
SR-420	3	0	0
SR-421	3	0	0
SR-422	3	0	0
SR-423	3	0	0
SR-424	3	0	0
SR-426	3	0	0
SR-427	3	0	0
SR-429	3	0	0
SR-430	3	0	0
SR-432	3	0	0
SR-434	3	0	0
SR-435	3	0	0
SR-437	3	0	0
SR-438	3	0	0
SR-439	3	0	0
SR-443	3	0	0
SR-446	3	0	0
SR-448	3	0	0
SR-449	3	0	0
SR-450	3	0	0
SR-451	3	0	0
SR-452	3	0	0
SR-453	3	0	0
SR-454	3	0	0
SR-455	3	0	0
SR-456	3	0	0
SR-457	3	0	0
SR-458	3	0	0
SR-459	3	0	0
SR-460	3	0	0
SR-461	3	0	0
SR-463	3	0	0
SR-464	3	0	0
SR-465	3	0	0
SR-466	3	0	0
SR-467	3	0	0
SR-470	3	0	0
SR-471	3	0	0

# ESTCP Classification Demonstration Ranked Anomaly List

Site SpencerOpen  
 Analyst USAE  
 Method UXA  
 Dynamic D: None  
 Cued Data MetalMapperN  
 Training Se Custom  
 Stage 3  
 Version 1

List all anomalies in both Training and Test Sets:

Include prefixes in Target ID column (for example: BE-138). Data in all other columns should be numerical (no text):

Target ID: Category: Dig TOI Type:

SR-472	3	0	0
SR-474	3	0	0
SR-475	3	0	0
SR-476	3	0	0
SR-477	3	0	0
SR-478	3	0	0
SR-479	3	0	0
SR-480	3	0	0
SR-481	3	0	0
SR-482	3	0	0
SR-483	3	0	0
SR-484	3	0	0
SR-487	3	0	0
SR-488	3	0	0
SR-491	3	0	0
SR-492	3	0	0
SR-493	3	0	0
SR-495	3	0	0
SR-497	3	0	0
SR-498	3	0	0
SR-499	3	0	0
SR-500	3	0	0
SR-501	3	0	0
SR-502	3	0	0
SR-506	3	0	0
SR-507	3	0	0
SR-508	3	0	0
SR-509	3	0	0
SR-510	3	0	0
SR-511	3	0	0
SR-512	3	0	0
SR-513	3	0	0
SR-514	3	0	0
SR-515	3	0	0
SR-516	3	0	0
SR-517	3	0	0
SR-519	3	0	0
SR-520	3	0	0
SR-522	3	0	0

# ESTCP Classification Demonstration Ranked Anomaly List

Site SpencerOpen  
Analyst USAE  
Method UXA  
Dynamic D: None  
Cued Data MetalMapperN  
Training Se Custom  
Stage 3  
Version 1

List all anomalies in both Training and Test Sets:

Include prefixes in Target ID column (for example: BE-138). Data in all other columns should be numerical (no text):

Target ID: Category: Dig TOI Type:

SR-523	3	0	0
SR-524	3	0	0
SR-525	3	0	0
SR-526	3	0	0
SR-527	3	0	0
SR-528	3	0	0
SR-529	3	0	0
SR-530	3	0	0
SR-531	3	0	0
SR-532	3	0	0
SR-533	3	0	0
SR-534	3	0	0
SR-535	3	0	0
SR-538	3	0	0
SR-539	3	0	0
SR-540	3	0	0
SR-541	3	0	0
SR-542	3	0	0
SR-543	3	0	0
SR-544	3	0	0
SR-547	3	0	0
SR-548	3	0	0
SR-549	3	0	0
SR-550	3	0	0
SR-551	3	0	0
SR-552	3	0	0
SR-553	3	0	0
SR-554	3	0	0
SR-555	3	0	0
SR-556	3	0	0
SR-557	3	0	0
SR-558	3	0	0
SR-559	3	0	0
SR-560	3	0	0
SR-561	3	0	0
SR-562	3	0	0
SR-563	3	0	0
SR-564	3	0	0
SR-565	3	0	0

# ESTCP Classification Demonstration Ranked Anomaly List

Site SpencerOpen  
 Analyst USAE  
 Method UXA  
 Dynamic D: None  
 Cued Data MetalMapperN  
 Training Se Custom  
 Stage 3  
 Version 1

List all anomalies in both Training and Test Sets:

Include prefixes in Target ID column (for example: BE-138). Data in all other columns should be numerical (no text):

Target ID: Category: Dig TOI Type:

SR-566	3	0	0
SR-567	3	0	0
SR-568	3	0	0
SR-569	3	0	0
SR-570	3	0	0
SR-571	3	0	0
SR-574	3	0	0
SR-576	3	0	0
SR-577	3	0	0
SR-579	3	0	0
SR-581	3	0	0
SR-582	3	0	0
SR-584	3	0	0
SR-585	3	0	0
SR-586	3	0	0
SR-587	3	0	0
SR-589	3	0	0
SR-590	3	0	0
SR-591	3	0	0
SR-592	3	0	0
SR-593	3	0	0
SR-595	3	0	0
SR-596	3	0	0
SR-597	3	0	0
SR-598	3	0	0
SR-599	3	0	0
SR-601	3	0	0
SR-602	3	0	0
SR-603	3	0	0
SR-604	3	0	0
SR-605	3	0	0
SR-606	3	0	0
SR-608	3	0	0
SR-609	3	0	0
SR-611	3	0	0
SR-612	3	0	0
SR-613	3	0	0
SR-615	3	0	0
SR-616	3	0	0

# ESTCP Classification Demonstration Ranked Anomaly List

Site SpencerOpen  
 Analyst USAE  
 Method UXA  
 Dynamic D: None  
 Cued Data MetalMapperN  
 Training Se Custom  
 Stage 3  
 Version 1

List all anomalies in both Training and Test Sets:

Include prefixes in Target ID column (for example: BE-138). Data in all other columns should be numerical (no text):

Target ID: Category: Dig TOI Type:

SR-617	3	0	0
SR-619	3	0	0
SR-620	3	0	0
SR-621	3	0	0
SR-622	3	0	0
SR-623	3	0	0
SR-624	3	0	0
SR-625	3	0	0
SR-626	3	0	0
SR-627	3	0	0
SR-630	3	0	0
SR-632	3	0	0
SR-634	3	0	0
SR-635	3	0	0
SR-637	3	0	0
SR-638	3	0	0
SR-639	3	0	0
SR-640	3	0	0
SR-641	3	0	0
SR-642	3	0	0
SR-643	3	0	0
SR-644	3	0	0
SR-645	3	0	0
SR-646	3	0	0
SR-647	3	0	0
SR-649	3	0	0
SR-651	3	0	0
SR-652	3	0	0
SR-654	3	0	0
SR-655	3	0	0
SR-656	3	0	0
SR-657	3	0	0
SR-659	3	0	0
SR-660	3	0	0
SR-661	3	0	0
SR-662	3	0	0
SR-663	3	0	0
SR-664	3	0	0
SR-665	3	0	0

# ESTCP Classification Demonstration Ranked Anomaly List

Site SpencerOpen  
 Analyst USAE  
 Method UXA  
 Dynamic D: None  
 Cued Data MetalMapperN  
 Training Se Custom  
 Stage 3  
 Version 1

List all anomalies in both Training and Test Sets:

Include prefixes in Target ID column (for example: BE-138). Data in all other columns should be numerical (no text):

Target ID: Category: Dig TOI Type:

SR-666	3	0	0
SR-668	3	0	0
SR-669	3	0	0
SR-670	3	0	0
SR-672	3	0	0
SR-674	3	0	0
SR-675	3	0	0
SR-676	3	0	0
SR-677	3	0	0
SR-678	3	0	0
SR-679	3	0	0
SR-680	3	0	0
SR-682	3	0	0
SR-683	3	0	0
SR-684	3	0	0
SR-685	3	0	0
SR-686	3	0	0
SR-687	3	0	0
SR-688	3	0	0
SR-689	3	0	0
SR-690	3	0	0
SR-691	3	0	0
SR-692	3	0	0
SR-693	3	0	0
SR-694	3	0	0
SR-695	3	0	0
SR-698	3	0	0
SR-699	3	0	0
SR-703	3	0	0
SR-704	3	0	0
SR-705	3	0	0
SR-706	3	0	0
SR-711	3	0	0
SR-712	3	0	0
SR-713	3	0	0
SR-714	3	0	0
SR-715	3	0	0
SR-716	3	0	0
SR-717	3	0	0



# ESTCP Classification Demonstration Ranked Anomaly List

Site SpencerOpen  
Analyst USAE  
Method UXA  
Dynamic D: None  
Cued Data MetalMapperN  
Training Se Custom  
Stage 3  
Version 1

List all anomalies in both Training and Test Sets:

Include prefixes in Target ID column (for example: BE-138). Data in all other columns should be numerical (no text):

Target ID: Category: Dig TOI Type:

SR-720	3	0	0
SR-721	3	0	0
SR-724	3	0	0
SR-725	3	0	0
SR-726	3	0	0
SR-727	3	0	0
SR-728	3	0	0
SR-729	3	0	0
SR-730	3	0	0
SR-731	3	0	0
SR-733	3	0	0
SR-734	3	0	0
SR-735	3	0	0
SR-738	3	0	0
SR-739	3	0	0
SR-740	3	0	0
SR-741	3	0	0
SR-742	3	0	0
SR-743	3	0	0
SR-745	3	0	0
SR-746	3	0	0
SR-747	3	0	0
SR-749	3	0	0
SR-750	3	0	0
SR-751	3	0	0
SR-752	3	0	0
SR-754	3	0	0
SR-761	3	0	0
SR-762	3	0	0
SR-764	3	0	0
SR-765	3	0	0
SR-767	3	0	0
SR-768	3	0	0
SR-769	3	0	0
SR-770	3	0	0
SR-771	3	0	0
SR-772	3	0	0
SR-773	3	0	0
SR-774	3	0	0

# ESTCP Classification Demonstration Ranked Anomaly List

Site SpencerOpen  
 Analyst USAE  
 Method UXA  
 Dynamic D: None  
 Cued Data MetalMapperN  
 Training Se Custom  
 Stage 3  
 Version 1

List all anomalies in both Training and Test Sets:

Include prefixes in Target ID column (for example: BE-138). Data in all other columns should be numerical (no text):

Target ID: Category: Dig TOI Type:

SR-775	3	0	0
SR-776	3	0	0
SR-777	3	0	0
SR-778	3	0	0
SR-779	3	0	0
SR-781	3	0	0
SR-782	3	0	0
SR-783	3	0	0
SR-785	3	0	0
SR-788	3	0	0
SR-793	3	0	0
SR-794	3	0	0
SR-796	3	0	0
SR-797	3	0	0
SR-798	3	0	0
SR-800	3	0	0
SR-801	3	0	0
SR-803	3	0	0
SR-806	3	0	0
SR-807	3	0	0
SR-808	3	0	0
SR-809	3	0	0
SR-810	3	0	0
SR-811	3	0	0
SR-812	3	0	0
SR-813	3	0	0
SR-814	3	0	0
SR-815	3	0	0
SR-816	3	0	0
SR-817	3	0	0
SR-818	3	0	0
SR-819	3	0	0
SR-820	3	0	0
SR-821	3	0	0
SR-822	3	0	0
SR-823	3	0	0
SR-824	3	0	0
SR-825	3	0	0
SR-826	3	0	0

# ESTCP Classification Demonstration Ranked Anomaly List

Site SpencerOpen  
 Analyst USAE  
 Method UXA  
 Dynamic D: None  
 Cued Data MetalMapperN  
 Training Se Custom  
 Stage 3  
 Version 1

List all anomalies in both Training and Test Sets:

Include prefixes in Target ID column (for example: BE-138). Data in all other columns should be numerical (no text):

Target ID: Category: Dig TOI Type:

SR-830	3	0	0
SR-831	3	0	0
SR-834	3	0	0
SR-836	3	0	0
SR-838	3	0	0
SR-839	3	0	0
SR-841	3	0	0
SR-842	3	0	0
SR-843	3	0	0
SR-844	3	0	0
SR-845	3	0	0
SR-846	3	0	0
SR-847	3	0	0
SR-848	3	0	0
SR-849	3	0	0
SR-850	3	0	0
SR-853	3	0	0
SR-855	3	0	0
SR-858	3	0	0
SR-859	3	0	0
SR-860	3	0	0
SR-861	3	0	0
SR-862	3	0	0
SR-863	3	0	0
SR-865	3	0	0
SR-866	3	0	0
SR-868	3	0	0
SR-869	3	0	0
SR-870	3	0	0
SR-871	3	0	0
SR-872	3	0	0
SR-874	3	0	0
SR-875	3	0	0
SR-876	3	0	0
SR-877	3	0	0
SR-880	3	0	0
SR-881	3	0	0
SR-882	3	0	0
SR-883	3	0	0

# ESTCP Classification Demonstration Ranked Anomaly List

Site SpencerOpen  
 Analyst USAE  
 Method UXA  
 Dynamic D: None  
 Cued Data MetalMapperN  
 Training Se Custom  
 Stage 3  
 Version 1

List all anomalies in both Training and Test Sets:

Include prefixes in Target ID column (for example: BE-138). Data in all other columns should be numerical (no text):

Target ID: Category: Dig TOI Type:

SR-884	3	0	0
SR-885	3	0	0
SR-889	3	0	0
SR-890	3	0	0
SR-891	3	0	0
SR-892	3	0	0
SR-893	3	0	0
SR-894	3	0	0
SR-895	3	0	0
SR-896	3	0	0
SR-899	3	0	0
SR-900	3	0	0
SR-901	3	0	0
SR-902	3	0	0
SR-903	3	0	0
SR-905	3	0	0
SR-906	3	0	0
SR-907	3	0	0
SR-908	3	0	0
SR-909	3	0	0
SR-910	3	0	0
SR-911	3	0	0
SR-912	3	0	0
SR-913	3	0	0
SR-914	3	0	0
SR-915	3	0	0
SR-916	3	0	0
SR-917	3	0	0
SR-918	3	0	0
SR-919	3	0	0
SR-922	3	0	0
SR-924	3	0	0
SR-925	3	0	0
SR-926	3	0	0
SR-927	3	0	0
SR-928	3	0	0
SR-929	3	0	0
SR-930	3	0	0
SR-931	3	0	0

# ESTCP Classification Demonstration Ranked Anomaly List

Site SpencerOpen  
 Analyst USAE  
 Method UXA  
 Dynamic D: None  
 Cued Data MetalMapperN  
 Training Se Custom  
 Stage 3  
 Version 1

List all anomalies in both Training and Test Sets:

Include prefixes in Target ID column (for example: BE-138). Data in all other columns should be numerical (no text):

Target ID: Category: Dig TOI Type:

SR-932	3	0	0
SR-933	3	0	0
SR-934	3	0	0
SR-936	3	0	0
SR-938	3	0	0
SR-939	3	0	0
SR-940	3	0	0
SR-941	3	0	0
SR-942	3	0	0
SR-944	3	0	0
SR-946	3	0	0
SR-947	3	0	0
SR-948	3	0	0
SR-949	3	0	0
SR-952	3	0	0
SR-954	3	0	0
SR-955	3	0	0
SR-959	3	0	0
SR-960	3	0	0
SR-961	3	0	0
SR-962	3	0	0
SR-963	3	0	0
SR-964	3	0	0
SR-965	3	0	0
SR-966	3	0	0
SR-969	3	0	0
SR-970	3	0	0
SR-972	3	0	0
SR-973	3	0	0
SR-975	3	0	0
SR-976	3	0	0
SR-977	3	0	0
SR-979	3	0	0
SR-980	3	0	0
SR-981	3	0	0
SR-982	3	0	0
SR-983	3	0	0
SR-984	3	0	0
SR-985	3	0	0

# ESTCP Classification Demonstration Ranked Anomaly List

Site        SpencerOpen  
 Analyst    USAE  
 Method    UXA  
 Dynamic D: None  
 Cued Data MetalMapperN  
 Training Se Custom  
 Stage       3  
 Version     1

List all anomalies in both Training and Test Sets:

Include prefixes in Target ID column (for example: BE-138). Data in all other columns should be numerical (no text):

Target ID:    Category:    Dig        TOI Type:

SR-986	3	0	0
SR-987	3	0	0
SR-988	3	0	0
SR-989	3	0	0
SR-990	3	0	0
SR-996	3	0	0
SR-997	3	0	0
SR-998	3	0	0
SR-999	3	0	0
SR-1000	3	0	0
SR-1002	3	0	0
SR-1003	3	0	0
SR-1004	3	0	0
SR-1007	3	0	0
SR-1008	3	0	0
SR-1009	3	0	0
SR-1011	3	0	0
SR-1012	3	0	0
SR-1013	3	0	0
SR-1014	3	0	0
SR-1015	3	0	0
SR-1016	3	0	0
SR-1018	3	0	0
SR-1019	3	0	0
SR-1020	3	0	0
SR-1022	3	0	0
SR-1023	3	0	0
SR-1024	3	0	0
SR-1026	3	0	0
SR-1027	3	0	0
SR-1028	3	0	0
SR-1030	3	0	0
SR-1032	3	0	0
SR-1033	3	0	0
SR-1034	3	0	0
SR-1035	3	0	0
SR-1037	3	0	0
SR-1038	3	0	0
SR-1040	3	0	0

# ESTCP Classification Demonstration Ranked Anomaly List

Site SpencerOpen  
Analyst USAE  
Method UXA  
Dynamic D: None  
Cued Data MetalMapperN  
Training Se Custom  
Stage 3  
Version 1

List all anomalies in both Training and Test Sets:

Include prefixes in Target ID column (for example: BE-138). Data in all other columns should be numerical (no text):

Target ID: Category: Dig TOI Type:

SR-1041	3	0	0
SR-1042	3	0	0
SR-1043	3	0	0
SR-1044	3	0	0
SR-1045	3	0	0
SR-1046	3	0	0
SR-1049	3	0	0
SR-1052	3	0	0
SR-1053	3	0	0
SR-1054	3	0	0
SR-1056	3	0	0
SR-1057	3	0	0
SR-1058	3	0	0
SR-1059	3	0	0
SR-1060	3	0	0
SR-1061	3	0	0
SR-1062	3	0	0
SR-1063	3	0	0
SR-1064	3	0	0
SR-1065	3	0	0
SR-1066	3	0	0
SR-1069	3	0	0
SR-1070	3	0	0
SR-1071	3	0	0
SR-1072	3	0	0
SR-1073	3	0	0
SR-1074	3	0	0
SR-1075	3	0	0
SR-1076	3	0	0
SR-1077	3	0	0
SR-1078	3	0	0
SR-1079	3	0	0
SR-1080	3	0	0
SR-1081	3	0	0
SR-1084	3	0	0
SR-1085	3	0	0
SR-1086	3	0	0
SR-1087	3	0	0
SR-1088	3	0	0

# ESTCP Classification Demonstration Ranked Anomaly List

Site SpencerOpen  
 Analyst USAE  
 Method UXA  
 Dynamic D: None  
 Cued Data MetalMapperN  
 Training Se Custom  
 Stage 3  
 Version 1

List all anomalies in both Training and Test Sets:

Include prefixes in Target ID column (for example: BE-138). Data in all other columns should be numerical (no text):

Target ID: Category: Dig TOI Type:

SR-1089	3	0	0
SR-1090	3	0	0
SR-1091	3	0	0
SR-1093	3	0	0
SR-1095	3	0	0
SR-1096	3	0	0
SR-1098	3	0	0
SR-1100	3	0	0
SR-1101	3	0	0
SR-1102	3	0	0
SR-1103	3	0	0
SR-1104	3	0	0
SR-1106	3	0	0
SR-1107	3	0	0
SR-1108	3	0	0
SR-1111	3	0	0
SR-1112	3	0	0
SR-1113	3	0	0
SR-1114	3	0	0
SR-1115	3	0	0
SR-1116	3	0	0
SR-1118	3	0	0
SR-1120	3	0	0
SR-1124	3	0	0
SR-1126	3	0	0
SR-1127	3	0	0
SR-1129	3	0	0
SR-1130	3	0	0
SR-1134	3	0	0
SR-1135	3	0	0
SR-1137	3	0	0
SR-1138	3	0	0
SR-1139	3	0	0
SR-1141	3	0	0
SR-1142	3	0	0
SR-1143	3	0	0
SR-1144	3	0	0
SR-1145	3	0	0
SR-1146	3	0	0



# ESTCP Classification Demonstration Ranked Anomaly List

Site SpencerOpen  
Analyst USAE  
Method UXA  
Dynamic D: None  
Cued Data MetalMapperN  
Training Se Custom  
Stage 3  
Version 1

List all anomalies in both Training and Test Sets:

Include prefixes in Target ID column (for example: BE-138). Data in all other columns should be numerical (no text):

Target ID: Category: Dig TOI Type:

SR-1147	3	0	0
SR-1148	3	0	0
SR-1149	3	0	0
SR-1150	3	0	0
SR-1152	3	0	0
SR-1153	3	0	0
SR-1154	3	0	0
SR-1155	3	0	0
SR-1157	3	0	0
SR-1158	3	0	0
SR-1159	3	0	0
SR-1161	3	0	0
SR-1162	3	0	0
SR-1163	3	0	0
SR-1167	3	0	0
SR-1168	3	0	0
SR-1170	3	0	0
SR-1172	3	0	0
SR-1173	3	0	0
SR-1175	3	0	0
SR-1176	3	0	0
SR-1177	3	0	0
SR-1178	3	0	0
SR-1179	3	0	0
SR-1180	3	0	0
SR-1181	3	0	0
SR-1182	3	0	0
SR-1183	3	0	0
SR-1184	3	0	0
SR-1185	3	0	0
SR-1187	3	0	0
SR-1188	3	0	0
SR-1190	3	0	0
SR-1192	3	0	0
SR-1193	3	0	0
SR-1194	3	0	0
SR-1195	3	0	0
SR-1196	3	0	0
SR-1198	3	0	0

# ESTCP Classification Demonstration Ranked Anomaly List

Site SpencerOpen  
 Analyst USAE  
 Method UXA  
 Dynamic D: None  
 Cued Data MetalMapperN  
 Training Se Custom  
 Stage 3  
 Version 1

List all anomalies in both Training and Test Sets:

Include prefixes in Target ID column (for example: BE-138). Data in all other columns should be numerical (no text):

Target ID: Category: Dig TOI Type:

SR-1199	3	0	0
SR-1200	3	0	0
SR-1201	3	0	0
SR-1202	3	0	0
SR-1203	3	0	0
SR-1206	3	0	0
SR-1208	3	0	0
SR-1209	3	0	0
SR-1210	3	0	0
SR-1211	3	0	0
SR-1212	3	0	0
SR-1213	3	0	0
SR-1214	3	0	0
SR-1215	3	0	0
SR-1218	3	0	0
SR-1221	3	0	0
SR-1222	3	0	0
SR-1224	3	0	0
SR-1225	3	0	0
SR-1226	3	0	0
SR-1227	3	0	0
SR-1228	3	0	0
SR-1230	3	0	0
SR-1232	3	0	0
SR-1233	3	0	0
SR-1234	3	0	0
SR-1235	3	0	0
SR-1236	3	0	0
SR-1237	3	0	0
SR-1239	3	0	0
SR-1241	3	0	0
SR-1242	3	0	0
SR-1244	3	0	0
SR-1246	3	0	0
SR-1247	3	0	0
SR-1248	3	0	0
SR-1249	3	0	0
SR-1250	3	0	0
SR-1251	3	0	0

# ESTCP Classification Demonstration Ranked Anomaly List

Site SpencerOpen

Analyst USAE

Method UXA

Dynamic D: None

Cued Data MetalMapperN

Training Se Custom

Stage 3

Version 1

List all anomalies in both Training and Test Sets:

Include prefixes in Target ID column (for example: BE-138). Data in all other columns should be numerical (no text):

Target ID: Category: Dig TOI Type:

SR-1252	3	0	0
SR-1253	3	0	0
SR-1257	3	0	0
SR-1258	3	0	0
SR-1259	3	0	0
SR-1260	3	0	0
SR-1261	3	0	0
SR-1262	3	0	0
SR-1264	3	0	0
SR-1265	3	0	0
SR-1266	3	0	0
SR-1267	3	0	0

# ESTCP Classification Demonstration Ranked Anomaly List

Site SpencerDynamic  
Analyst USAE  
Method UXA  
Dynamic D: None  
Cued Data MetalMapperN  
Training Se Custom  
Stage 3  
Version 1

List all anomalies in both Training and Test Sets:

Include prefixes in Target ID column (for example: BE-138). Data in all other columns should be numerical (no text):

Target ID:	Category:	Dig	TOI Type:
SR-1516	-1	1	0
SR-1550	-1	1	37
SR-1569	-1	1	155
SR-1606	-1	1	37
SR-1618	-1	1	0
SR-1666	-1	1	0
SR-1673	-1	1	0
SR-1704	-1	1	0
SR-1780	-1	1	75
SR-1781	-1	1	37
SR-1854	-1	1	0
SR-1879	-1	1	0
SR-1884	-1	1	0
SR-1885	-1	1	0
SR-1502	1	1	37
SR-1506	1	1	37
SR-1515	1	1	48
SR-1534	1	1	37
SR-1545	1	1	48
SR-1548	1	1	60
SR-1552	1	1	48
SR-1555	1	1	61
SR-1559	1	1	48
SR-1564	1	1	37
SR-1571	1	1	48
SR-1573	1	1	48
SR-1576	1	1	37
SR-1604	1	1	48
SR-1609	1	1	48
SR-1619	1	1	48
SR-1626	1	1	48
SR-1636	1	1	75
SR-1661	1	1	60
SR-1676	1	1	48
SR-1689	1	1	48
SR-1690	1	1	48
SR-1705	1	1	48
SR-1725	1	1	75
SR-1729	1	1	37

# ESTCP Classification Demonstration Ranked Anomaly List

Site SpencerDynamic  
Analyst USAE  
Method UXA  
Dynamic D: None  
Cued Data MetalMapperN  
Training Se Custom  
Stage 3  
Version 1

List all anomalies in both Training and Test Sets:

Include prefixes in Target ID column (for example: BE-138). Data in all other columns should be numerical (no text):

Target ID:	Category:	Dig	TOI Type:
SR-1747	1	1	48
SR-1753	1	1	48
SR-1757	1	1	37
SR-1761	1	1	37
SR-1766	1	1	48
SR-1796	1	1	48
SR-1512	2	1	0
SR-1518	2	1	60
SR-1519	2	1	60
SR-1520	2	1	105
SR-1523	2	1	48
SR-1525	2	1	61
SR-1527	2	1	48
SR-1554	2	1	0
SR-1560	2	1	48
SR-1574	2	1	37
SR-1584	2	1	0
SR-1588	2	1	48
SR-1597	2	1	48
SR-1617	2	1	48
SR-1658	2	1	0
SR-1660	2	1	48
SR-1699	2	1	48
SR-1724	2	1	48
SR-1730	2	1	48
SR-1738	2	1	0
SR-1745	2	1	37
SR-1752	2	1	48
SR-1754	2	1	48
SR-1755	2	1	37
SR-1756	2	1	48
SR-1768	2	1	37
SR-1769	2	1	48
SR-1896	2	1	0
SR-1503	3	0	0
SR-1504	3	0	0
SR-1505	3	0	0
SR-1507	3	0	0
SR-1508	3	0	0

# ESTCP Classification Demonstration Ranked Anomaly List

Site SpencerDynamic  
Analyst USAE  
Method UXA  
Dynamic D: None  
Cued Data MetalMapperN  
Training Se Custom  
Stage 3  
Version 1

List all anomalies in both Training and Test Sets:

Include prefixes in Target ID column (for example: BE-138). Data in all other columns should be numerical (no text):

Target ID: Category: Dig TOI Type:

SR-1509	3	0	0
SR-1510	3	0	0
SR-1511	3	0	0
SR-1513	3	0	0
SR-1514	3	0	0
SR-1517	3	0	0
SR-1521	3	0	0
SR-1522	3	0	0
SR-1524	3	0	0
SR-1526	3	0	0
SR-1528	3	0	0
SR-1529	3	0	0
SR-1530	3	0	0
SR-1531	3	0	0
SR-1532	3	0	0
SR-1533	3	0	0
SR-1535	3	0	0
SR-1536	3	0	0
SR-1537	3	0	0
SR-1538	3	0	0
SR-1539	3	0	0
SR-1540	3	0	0
SR-1541	3	0	0
SR-1542	3	0	0
SR-1543	3	0	0
SR-1544	3	0	0
SR-1546	3	0	0
SR-1547	3	0	0
SR-1549	3	0	0
SR-1551	3	0	0
SR-1553	3	0	0
SR-1556	3	0	0
SR-1557	3	0	0
SR-1561	3	0	0
SR-1562	3	0	0
SR-1563	3	0	0
SR-1565	3	0	0
SR-1566	3	0	0
SR-1567	3	0	0

# ESTCP Classification Demonstration Ranked Anomaly List

Site SpencerDynamic  
Analyst USAE  
Method UXA  
Dynamic D: None  
Cued Data MetalMapperN  
Training Se Custom  
Stage 3  
Version 1

List all anomalies in both Training and Test Sets:

Include prefixes in Target ID column (for example: BE-138). Data in all other columns should be numerical (no text):

Target ID: Category: Dig TOI Type:

SR-1568	3	0	0
SR-1570	3	0	0
SR-1575	3	0	0
SR-1577	3	0	0
SR-1578	3	0	0
SR-1579	3	0	0
SR-1580	3	0	0
SR-1581	3	0	0
SR-1582	3	0	0
SR-1583	3	0	0
SR-1585	3	0	0
SR-1586	3	0	0
SR-1587	3	0	0
SR-1589	3	0	0
SR-1591	3	0	0
SR-1592	3	0	0
SR-1593	3	0	0
SR-1595	3	0	0
SR-1596	3	0	0
SR-1598	3	0	0
SR-1599	3	0	0
SR-1600	3	0	0
SR-1601	3	0	0
SR-1602	3	0	0
SR-1603	3	0	0
SR-1605	3	0	0
SR-1607	3	0	0
SR-1610	3	0	0
SR-1611	3	0	0
SR-1612	3	0	0
SR-1613	3	0	0
SR-1614	3	0	0
SR-1615	3	0	0
SR-1616	3	0	0
SR-1620	3	0	0
SR-1621	3	0	0
SR-1622	3	0	0
SR-1623	3	0	0
SR-1624	3	0	0

# ESTCP Classification Demonstration Ranked Anomaly List

Site SpencerDynamic  
Analyst USAE  
Method UXA  
Dynamic D: None  
Cued Data MetalMapperN  
Training Se Custom  
Stage 3  
Version 1

List all anomalies in both Training and Test Sets:

Include prefixes in Target ID column (for example: BE-138). Data in all other columns should be numerical (no text):

Target ID: Category: Dig TOI Type:

SR-1625	3	0	0
SR-1627	3	0	0
SR-1628	3	0	0
SR-1629	3	0	0
SR-1630	3	0	0
SR-1631	3	0	0
SR-1632	3	0	0
SR-1633	3	0	0
SR-1634	3	0	0
SR-1635	3	0	0
SR-1638	3	0	0
SR-1639	3	0	0
SR-1640	3	0	0
SR-1641	3	0	0
SR-1642	3	0	0
SR-1643	3	0	0
SR-1644	3	0	0
SR-1645	3	0	0
SR-1646	3	0	0
SR-1647	3	0	0
SR-1649	3	0	0
SR-1650	3	0	0
SR-1651	3	0	0
SR-1652	3	0	0
SR-1653	3	0	0
SR-1654	3	0	0
SR-1655	3	0	0
SR-1656	3	0	0
SR-1657	3	0	0
SR-1659	3	0	0
SR-1662	3	0	0
SR-1663	3	0	0
SR-1664	3	0	0
SR-1665	3	0	0
SR-1667	3	0	0
SR-1669	3	0	0
SR-1670	3	0	0
SR-1672	3	0	0
SR-1674	3	0	0



# ESTCP Classification Demonstration Ranked Anomaly List

Site SpencerDynamic  
Analyst USAE  
Method UXA  
Dynamic D: None  
Cued Data MetalMapperN  
Training Se Custom  
Stage 3  
Version 1

List all anomalies in both Training and Test Sets:

Include prefixes in Target ID column (for example: BE-138). Data in all other columns should be numerical (no text):

Target ID: Category: Dig TOI Type:

SR-1675	3	0	0
SR-1678	3	0	0
SR-1679	3	0	0
SR-1680	3	0	0
SR-1681	3	0	0
SR-1682	3	0	0
SR-1683	3	0	0
SR-1684	3	0	0
SR-1685	3	0	0
SR-1686	3	0	0
SR-1687	3	0	0
SR-1688	3	0	0
SR-1691	3	0	0
SR-1692	3	0	0
SR-1693	3	0	0
SR-1694	3	0	0
SR-1695	3	0	0
SR-1696	3	0	0
SR-1697	3	0	0
SR-1698	3	0	0
SR-1700	3	0	0
SR-1701	3	0	0
SR-1702	3	0	0
SR-1703	3	0	0
SR-1706	3	0	0
SR-1708	3	0	0
SR-1709	3	0	0
SR-1710	3	0	0
SR-1711	3	0	0
SR-1712	3	0	0
SR-1713	3	0	0
SR-1714	3	0	0
SR-1715	3	0	0
SR-1716	3	0	0
SR-1717	3	0	0
SR-1718	3	0	0
SR-1719	3	0	0
SR-1720	3	0	0
SR-1721	3	0	0

# ESTCP Classification Demonstration Ranked Anomaly List

Site SpencerDynamic  
Analyst USAE  
Method UXA  
Dynamic D: None  
Cued Data MetalMapperN  
Training Se Custom  
Stage 3  
Version 1

List all anomalies in both Training and Test Sets:

Include prefixes in Target ID column (for example: BE-138). Data in all other columns should be numerical (no text):

Target ID: Category: Dig TOI Type:

SR-1722	3	0	0
SR-1723	3	0	0
SR-1727	3	0	0
SR-1728	3	0	0
SR-1731	3	0	0
SR-1732	3	0	0
SR-1733	3	0	0
SR-1734	3	0	0
SR-1735	3	0	0
SR-1736	3	0	0
SR-1737	3	0	0
SR-1739	3	0	0
SR-1740	3	0	0
SR-1741	3	0	0
SR-1742	3	0	0
SR-1743	3	0	0
SR-1744	3	0	0
SR-1746	3	0	0
SR-1748	3	0	0
SR-1749	3	0	0
SR-1750	3	0	0
SR-1751	3	0	0
SR-1758	3	0	0
SR-1759	3	0	0
SR-1760	3	0	0
SR-1762	3	0	0
SR-1763	3	0	0
SR-1764	3	0	0
SR-1765	3	0	0
SR-1767	3	0	0
SR-1770	3	0	0
SR-1771	3	0	0
SR-1772	3	0	0
SR-1773	3	0	0
SR-1774	3	0	0
SR-1775	3	0	0
SR-1776	3	0	0
SR-1778	3	0	0
SR-1779	3	0	0

# ESTCP Classification Demonstration Ranked Anomaly List

Site SpencerDynamic  
Analyst USAE  
Method UXA  
Dynamic D: None  
Cued Data MetalMapperN  
Training Se Custom  
Stage 3  
Version 1

List all anomalies in both Training and Test Sets:

Include prefixes in Target ID column (for example: BE-138). Data in all other columns should be numerical (no text):

Target ID: Category: Dig TOI Type:

SR-1782	3	0	0
SR-1790	3	0	0
SR-1792	3	0	0
SR-1793	3	0	0
SR-1794	3	0	0
SR-1795	3	0	0
SR-1797	3	0	0
SR-1800	3	0	0
SR-1801	3	0	0
SR-1802	3	0	0
SR-1803	3	0	0
SR-1809	3	0	0
SR-1810	3	0	0
SR-1811	3	0	0
SR-1812	3	0	0
SR-1814	3	0	0
SR-1815	3	0	0
SR-1816	3	0	0
SR-1817	3	0	0
SR-1818	3	0	0
SR-1819	3	0	0
SR-1822	3	0	0
SR-1823	3	0	0
SR-1825	3	0	0
SR-1826	3	0	0
SR-1828	3	0	0
SR-1829	3	0	0
SR-1830	3	0	0
SR-1832	3	0	0
SR-1833	3	0	0
SR-1834	3	0	0
SR-1837	3	0	0
SR-1840	3	0	0
SR-1843	3	0	0
SR-1844	3	0	0
SR-1851	3	0	0
SR-1853	3	0	0
SR-1856	3	0	0
SR-1857	3	0	0

# ESTCP Classification Demonstration Ranked Anomaly List

Site        SpencerDynamic  
 Analyst    USAE  
 Method    UXA  
 Dynamic D: None  
 Cued Data MetalMapperN  
 Training Se Custom  
 Stage        3  
 Version      1

List all anomalies in both Training and Test Sets:

Include prefixes in Target ID column (for example: BE-138). Data in all other columns should be numerical (no text):

Target ID:    Category:    Dig        TOI Type:

SR-1859	3	0	0
SR-1863	3	0	0
SR-1864	3	0	0
SR-1865	3	0	0
SR-1866	3	0	0
SR-1867	3	0	0
SR-1868	3	0	0
SR-1869	3	0	0
SR-1871	3	0	0
SR-1872	3	0	0
SR-1873	3	0	0
SR-1874	3	0	0
SR-1875	3	0	0
SR-1876	3	0	0
SR-1877	3	0	0
SR-1878	3	0	0
SR-1880	3	0	0
SR-1881	3	0	0
SR-1882	3	0	0
SR-1886	3	0	0
SR-1887	3	0	0
SR-1889	3	0	0
SR-1890	3	0	0
SR-1891	3	0	0
SR-1892	3	0	0
SR-1894	3	0	0
SR-1895	3	0	0